

FERNALD CLEANUP PROGRESS BRIEFING

OCTOBER 2001

6:30 p.m. Opening Remarks

Gary Stegner

6:35 p.m. FCAB

Jim Bierer

6:40 p.m. Long Term Stewardship

Gary Stegner

6:45 p.m. Silos Project

Introduction

Nina Akgunduz

Silo 3

Tom Crawford

Accelerated Waste Retrieval

Warren Hooper

Silos 1 & 2

John North

Project Schedule

Ray Corradi

CAT Team Remarks

Question and Answer Session

8:30 p.m. Adjourn

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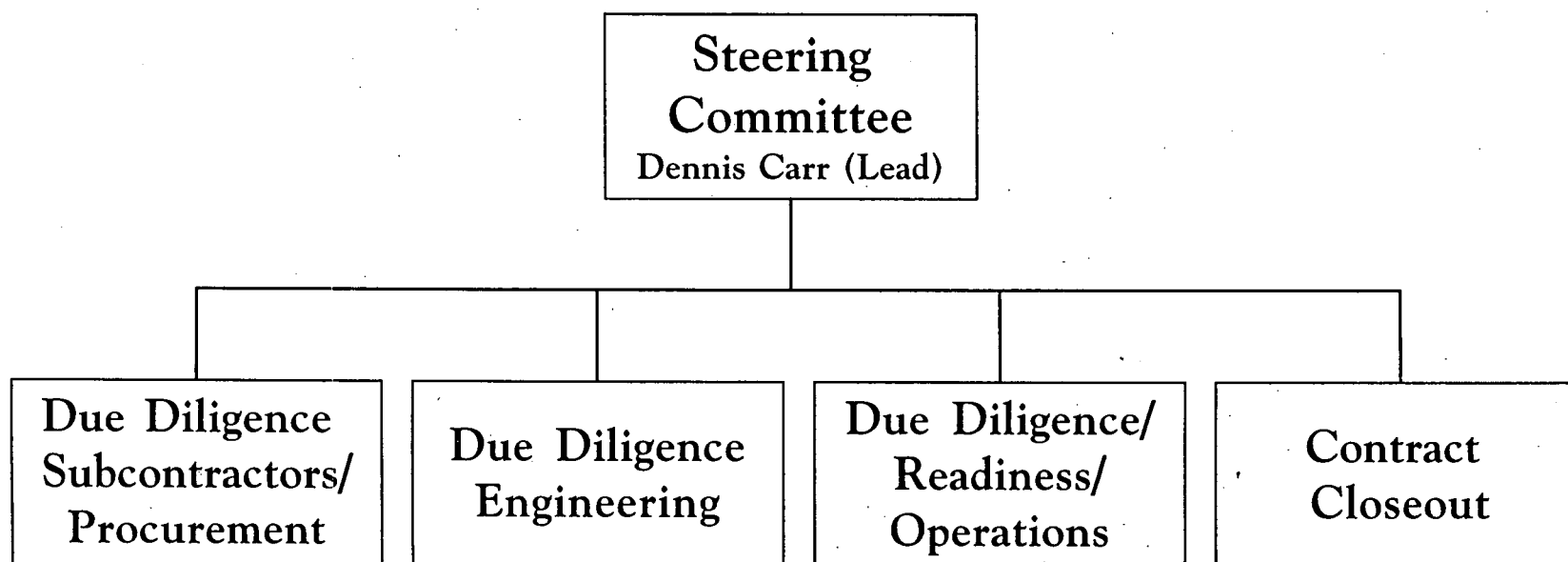
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SILOS PROJECT UPDATE

- Closure Contract established a new Implementation Strategy
- New Closure Baseline
- New Regulatory Milestones
- Disciplined engineering process
- Critical Analysis Team's (CAT's) role

ACCELERATED WASTE RETRIEVAL

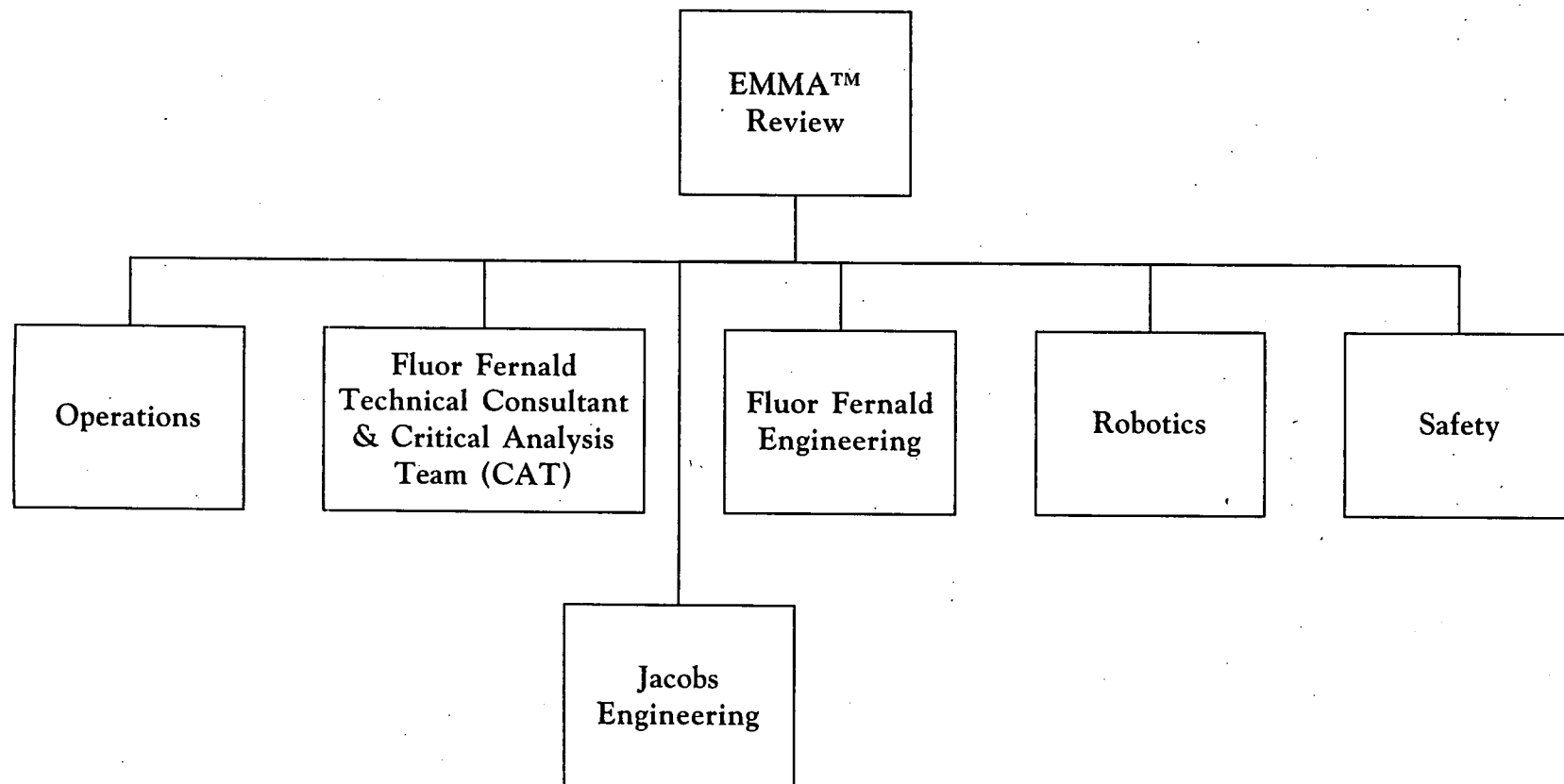
Transition Teams



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ACCELERATED WASTE RETRIEVAL

EMMA™ Review Team Organization



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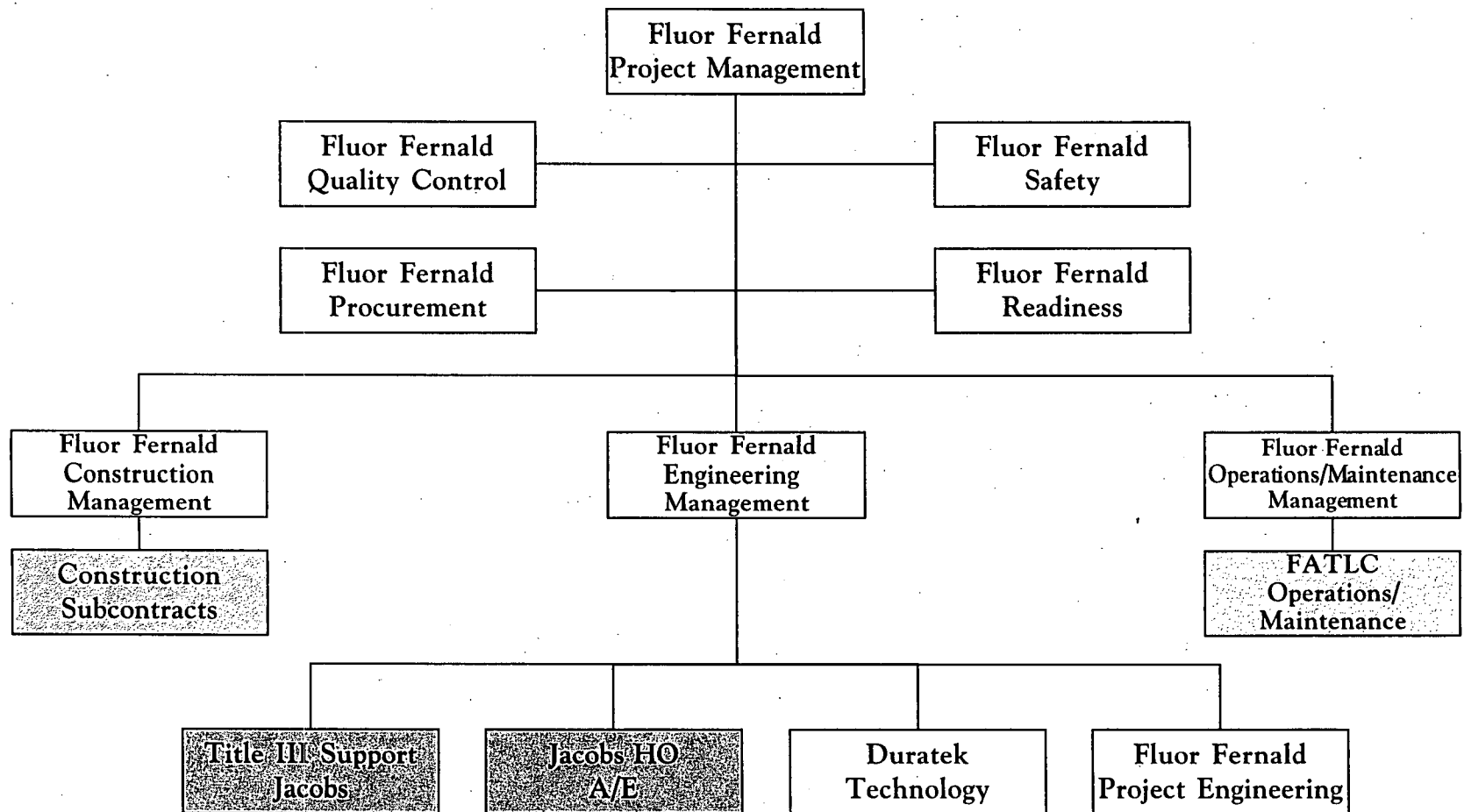
ACCELERATED WASTE RETRIEVAL

Due Diligence Status

- Initiated Due Diligence Evaluation on June 5, 2001
 - Completed Radon Control System (RCS)
 - Balance of Plant initiated on July 25, 2001
Expected completion: December 6, 2001
- EMMA™ preliminary findings: Risks outweigh advantages; currently developing alternatives

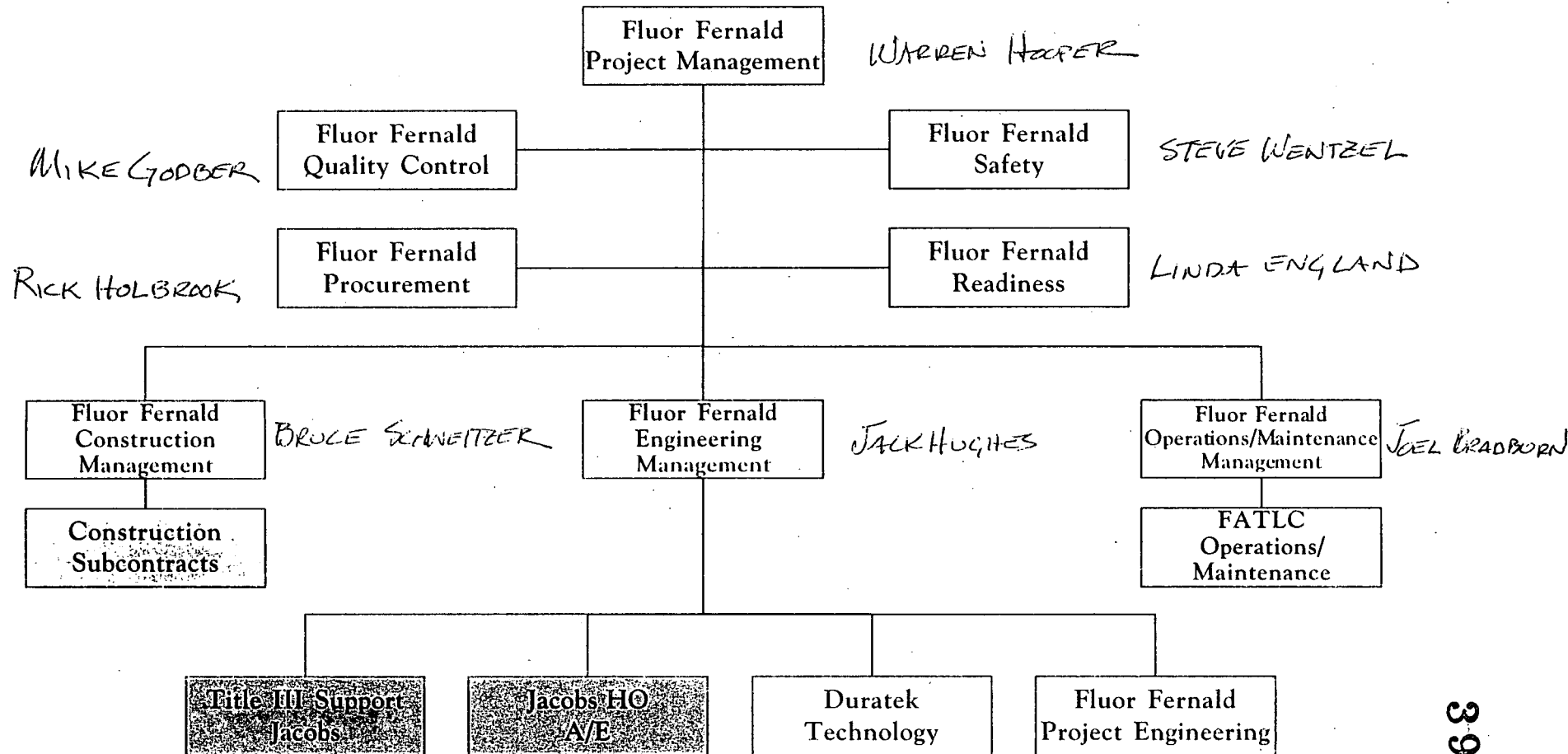
ACCELERATED WASTE RETRIEVAL

Project Team Organization



ACCELERATED WASTE RETRIEVAL

Project Team Organization



ACCELERATED WASTE RETRIEVAL

Path Forward

- New Regulatory Milestone dates proposed to USEPA:
 - Submit Revised Remedial Design (RD) Package
 - Start RCS Phase I Operations
 - Submit plan schedule for Mock-up Testing
 - Propose submittal date for Remedial Action Work Plan

ACCELERATED WASTE RETRIEVAL

Path Forward

- Complete Due Diligence
- Complete design activities
- Continue construction activities
- Revise existing RD Package

ACCELERATED WASTE RETRIEVAL

EMMA™ Decision

- Unacceptable risk based on safety, operability, maintainability, technical, and cost issues
- Major safety concerns in contamination control, airborne radioactivity, and industrial safety
- Extensive modifications required
- One of a kind unproven prototype

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ACCELERATED WASTE RETRIEVAL

Transition Phase Due Diligence

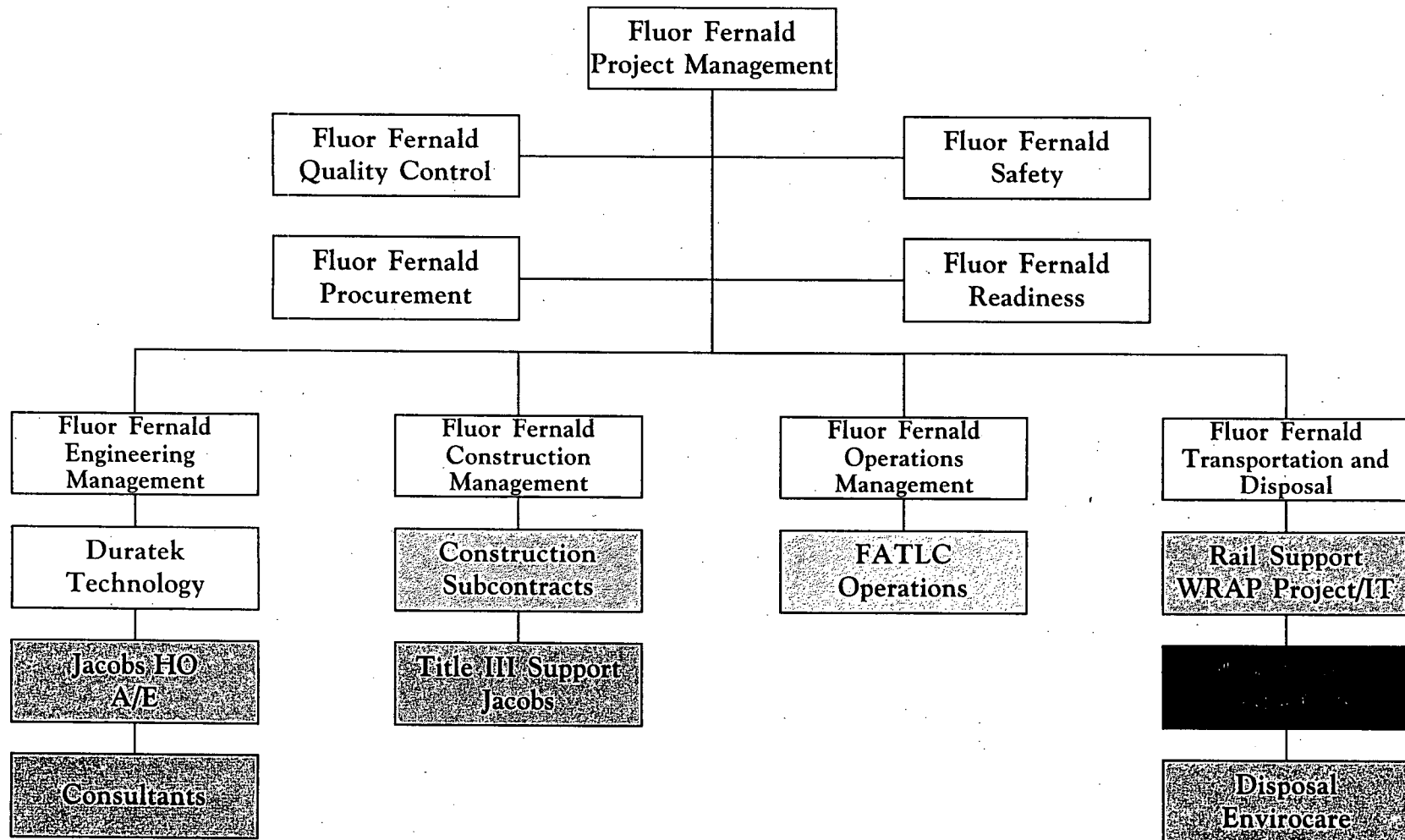
- Mutual Agreement reached to terminate Foster Wheeler's performance based contract
- Assurance needed surrounding required product
 - Validate engineering
 - Reassign contracts
 - Ensure equipment meets design requirements

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SILO 3

Project Team Organization

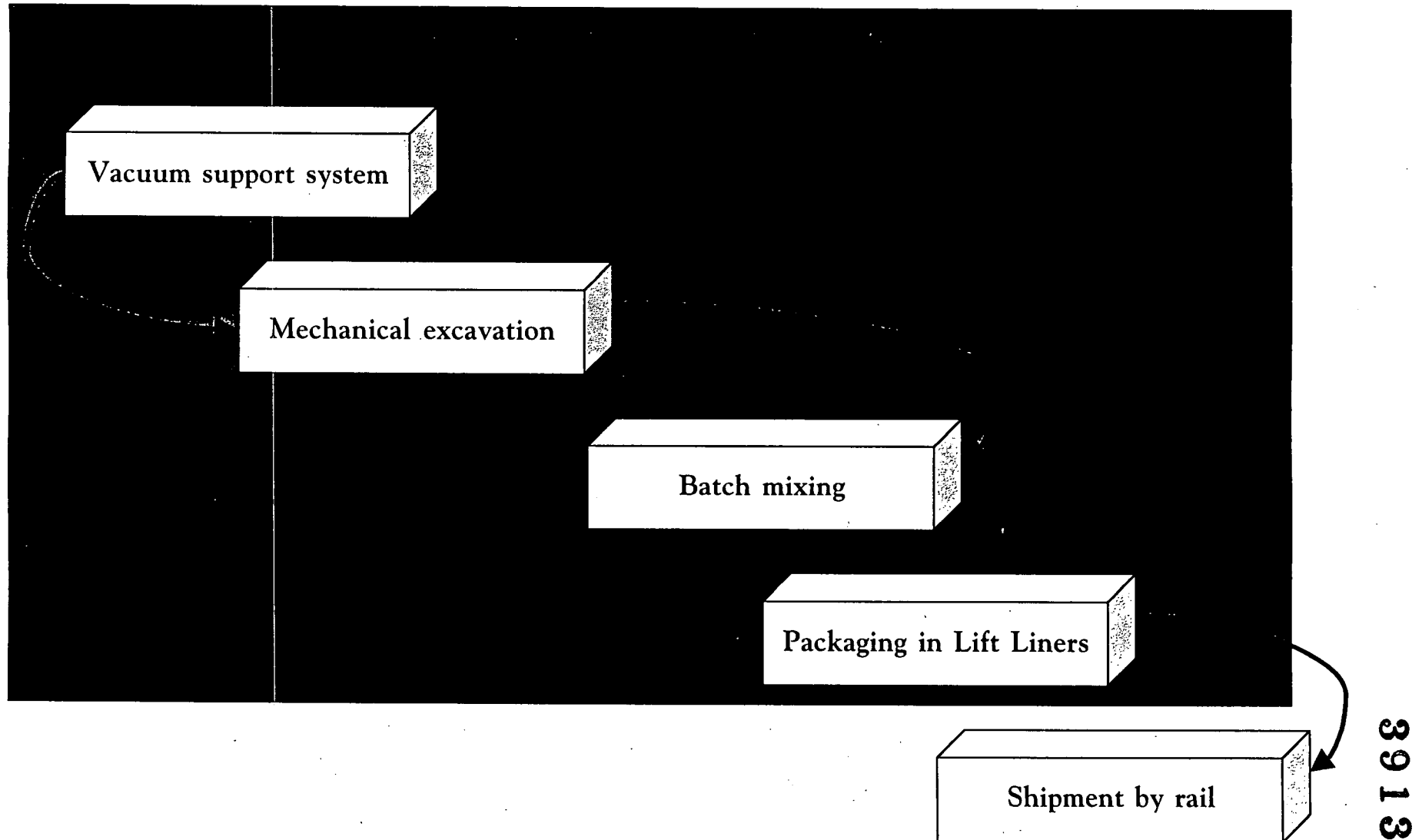


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SILO 3

New Technical Approach

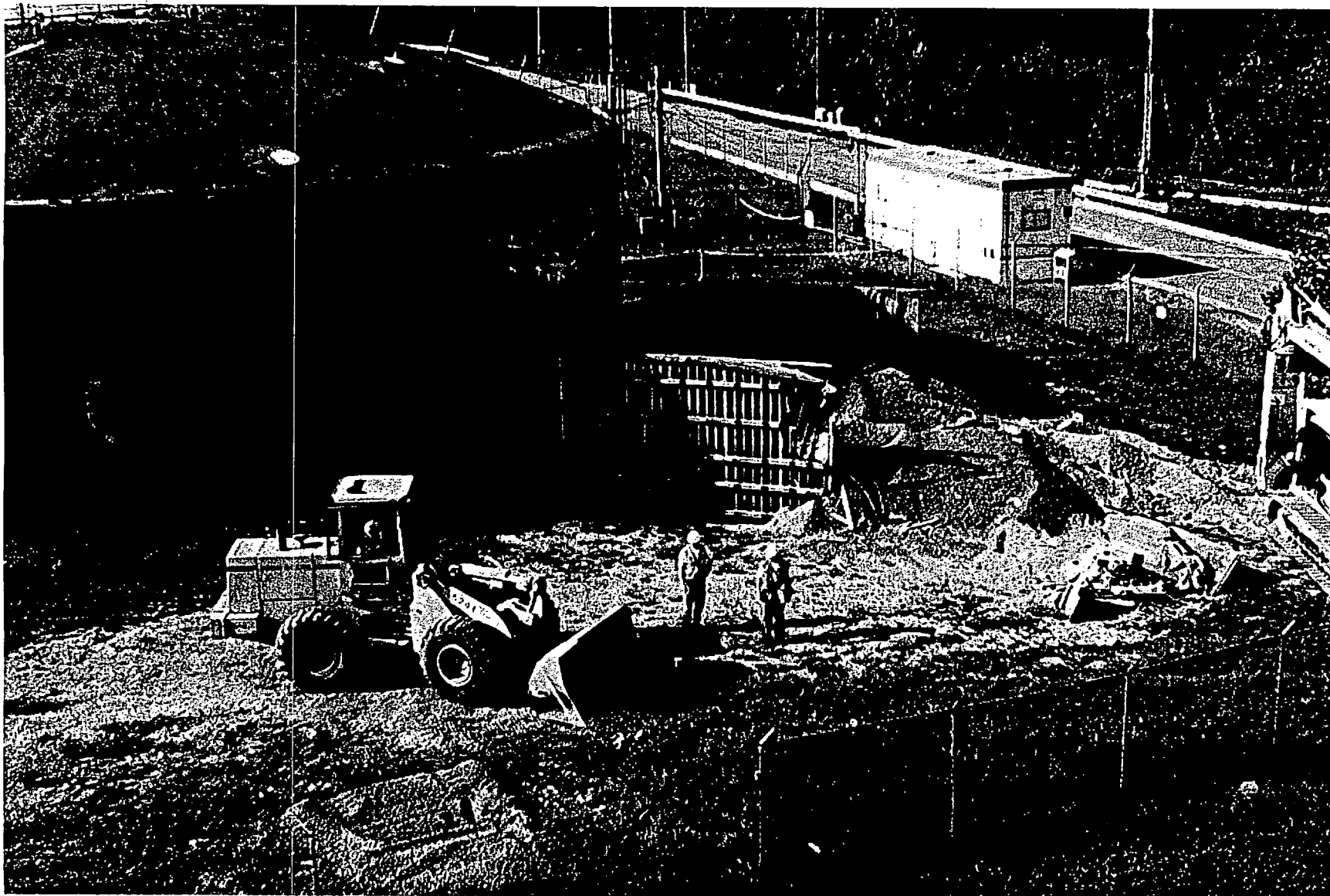


SILO 3

Work in Progress

- Design Basis and Requirements Document
- Process Design (Process Flow Diagrams, Process and Instrumentation Diagrams, General Arrangements & Heat and Material Balance)
- Structural Analysis & Design
- Design Data Development Test Plan
- Remove RMRS gantry pre-loading

RMRS GANTRY PRE-LOADING



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SILO 3

Path Forward

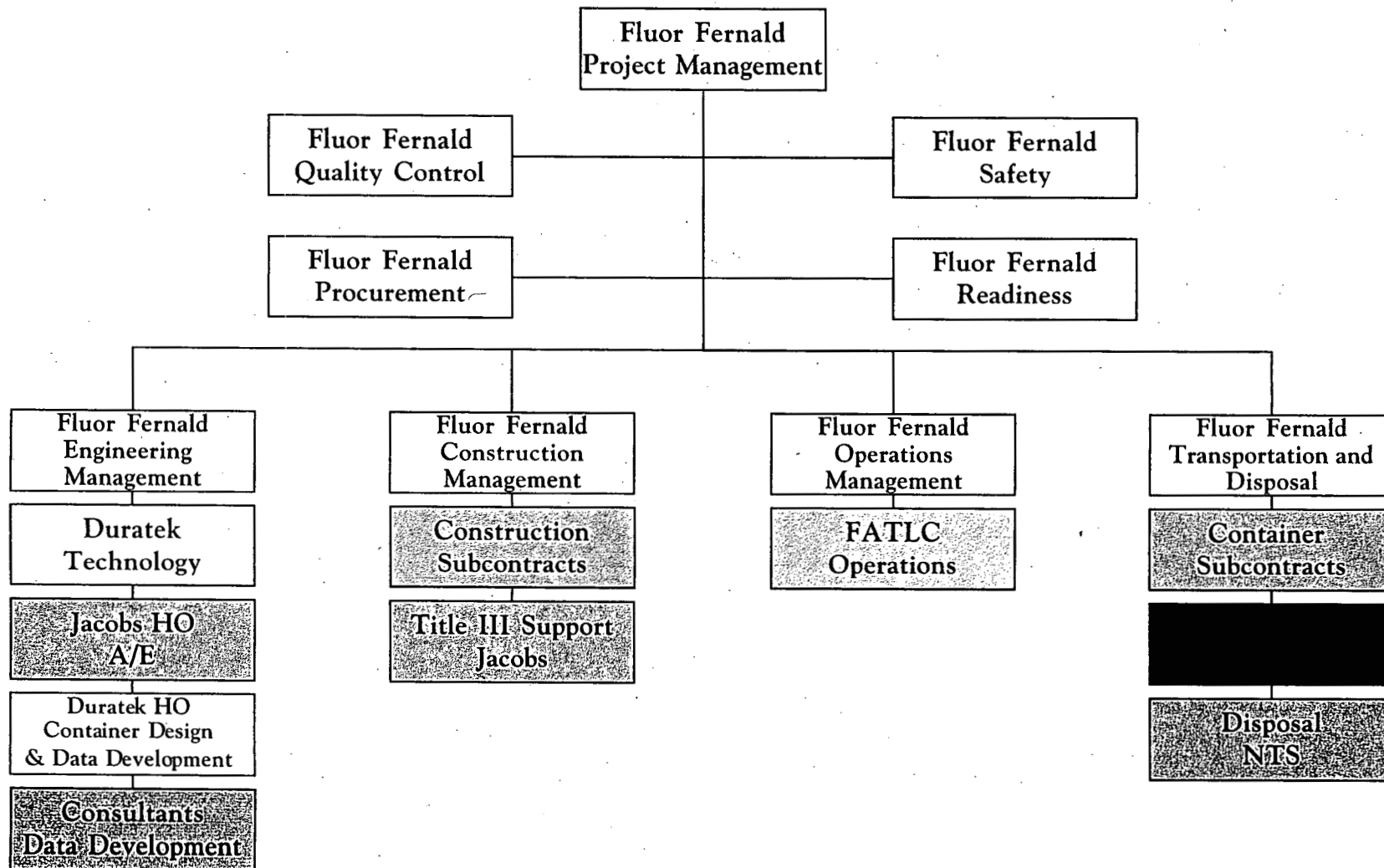
- Initiate Design Data Development testing
- Regulatory Milestone: Submit Revised Remedial Design Package, August 22, 2002

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SILOS 1 & 2

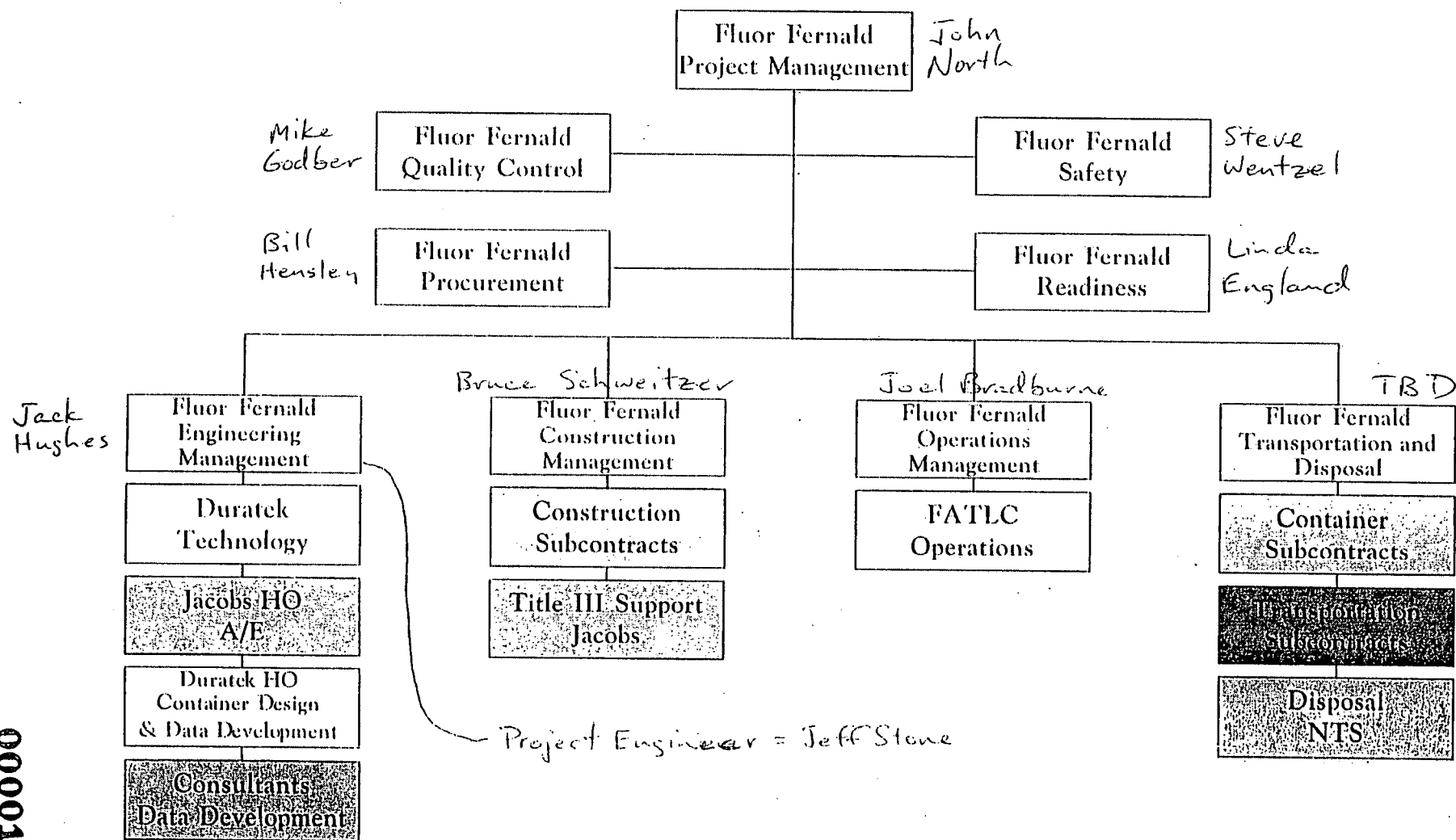
Project Team Organization



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SILOS 1 & 2

Project Team Organization

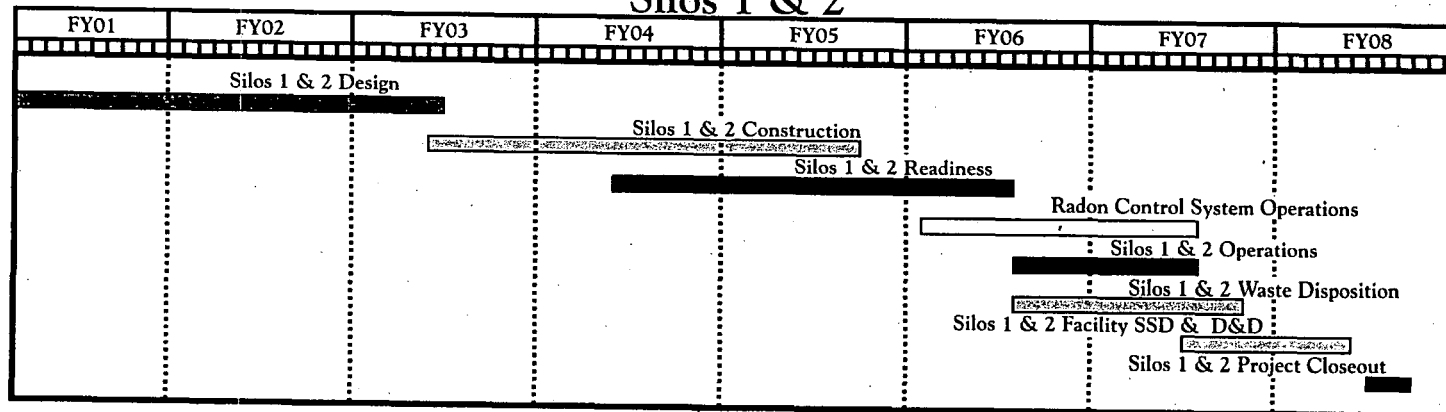


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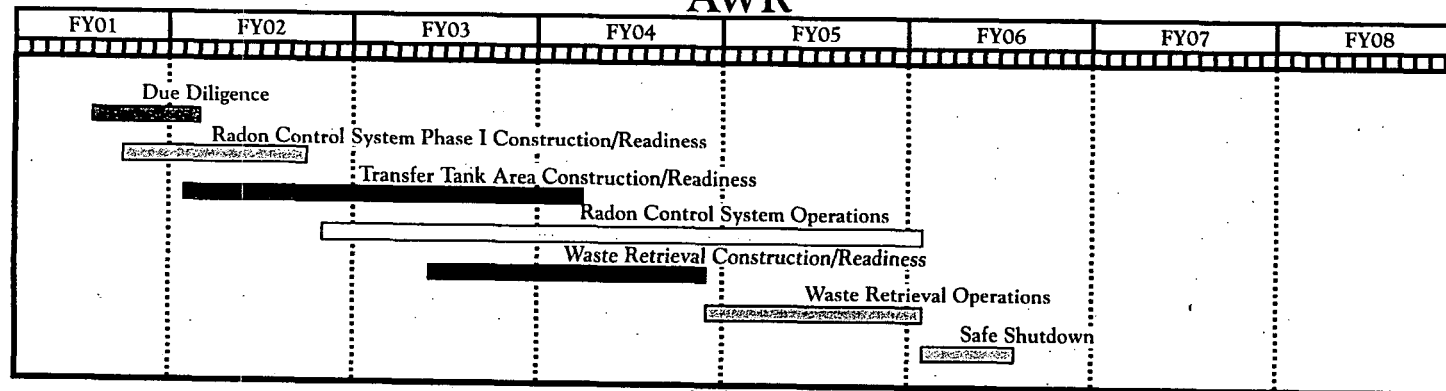
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PROJECT SCHEDULE

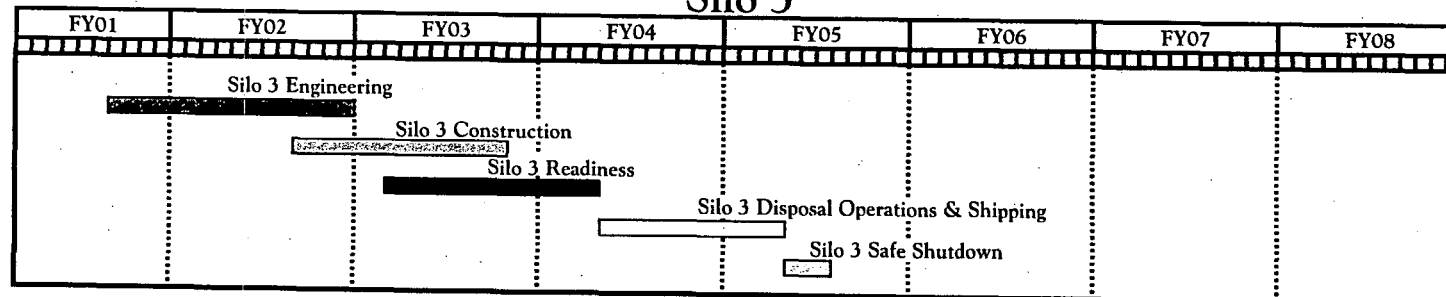
Silos 1 & 2



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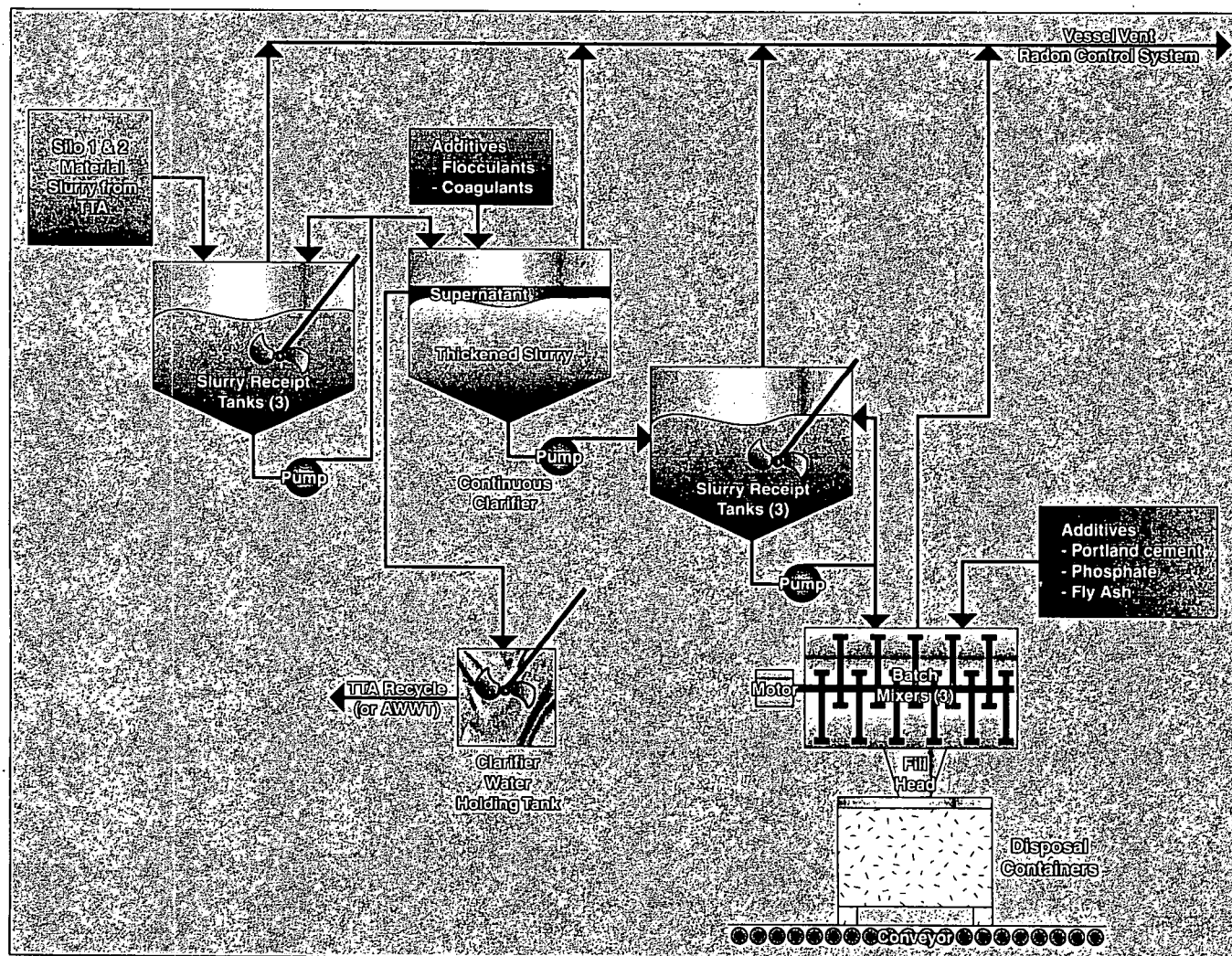
Silo 3



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SILOS 1 & 2 REMEDIATION

Simplified Process Diagram



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SILOS 1 & 2

Design Parameters

Comparison to Revised Feasability Study (FS)

	DESIGN VALUE	
PROCESS		
Dewatering Process	Clarifier	
Product Waste Loading	15-20%	
OPERATIONS		
Operations Period	1 Year	
Plant Availability	70%	
Product Generation Rate	30 cont./day	
TRANSPORTATION & DISPOSAL		
Container Gross Weight (max)	21,000 lbs	
Containers per Truck Shipment	2	
Total Number of Containers	7,500	
Total Number of Shipments	3,750	

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SILOS 1 & 2

Status/Schedule

- Conceptual Design Package
 - Revision A issued for review/comment on August 1, 2001
 - Parallel work/studies to be completed by end of 2001
 - Dewatering/stabilization formulation tests
 - Preliminary container design package
- Revised RD Work Plan submitted September 27, 2001
- Preliminary Design Package
 - Work began on August 1, 2001
 - Revision Z to be issued for review/comment on June 4, 2002
- Later Efforts
 - Final Design completion - April 2003
 - Construction completion - August 2005
 - Operations completion - May 2007

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SILOS 1 & 2 FACILITIES LAYOUT

Transfer
Tank
Area

Warehouse

Product
Handling
/Storage

Treatment
Facility

Vehicle &
Container
Staging